



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/027,066	12/21/2001	Thomas N. Turba	RA5411 (33012/329/101)	9769

27516 7590 08/19/2004

UNISYS CORPORATION
MS 4773
PO BOX 64942
ST. PAUL, MN 55164-0942

EXAMINER

WU, YICUN

ART UNIT	PAPER NUMBER
----------	--------------

2175

DATE MAILED: 08/19/2004

2

Please find below and/or attached an Office communication concerning this application or proceeding.

SP

Office Action Summary

Application No.

10/027,066

Applicant(s)

TURBA ET AL.

Examiner

Yicun Wu

Art Unit

2175

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 21 December 2001.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-20 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-20 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 04 December 2001 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

DAVE E. MIZRAHI
PRIMARY PATENT EXAMINER
TECHNOLOGY CENTER 2100

Art Unit: 2175

III. DETAILED ACTION

1. Claims 1-20 are presented for examination.

Specification

2. This Specification is objected to for the following informalities:

a) The disclosure contains embedded hyperlinks and/or other form of browser-executable code. Applicant is required to delete embedded hyperlinks and/or other form of browser-executable code. Application should be checked throughout for embedded hyperlinks. See MPEP § 608.01.

b) On page 1, line 6, Page 26, lines 5-7 and page 40, lines 3-5 the application number and filing date are missing; and
Appropriate action is required.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

3. Claims 1-20 are rejected under 35 U.S.C. 102(e) as being anticipated over Chau et al., (U. S. Patent No. 6,721,727).

As to claim 1, Chau et al. discloses a data processing system including a legacy data base management system having a command language coupled to a publically accessible digital data communication network comprising:

a response generated by the legacy data base management system (i.e. the XML system supports legacy flat files) (col. 8, lines 15-21) and (col. 44, lines 40-45) ; and

a facility for converting the response into an XML message (Fig. 10, step 1006) which is transferable over the publically

Art Unit: 2175

accessible digital data communication network (i.e. internet or intranet) (col. 5, lines 50-52)

As to claim 2, Chau et al. discloses a data processing system wherein the facility further comprises an output definition table (i.e. The XML data is mapped from the application DTD to the relational tables and columns using the document access definition based on the XPath data model) (col. 3, lines 15-21).

As to claim 3, Chau et al. discloses a data processing system wherein the facility further comprises a document type definition corresponding to the XML message (i.e. The XML data is mapped from the application DTD to the relational tables and columns using the document access definition based on the XPath data model) (col. 3, lines 15-21).

As to claim 4, Chau et al. discloses a data processing system wherein the facility includes storage for the output definition table (col. 4, lines 25-31 and Fig. 4, item 404).

Art Unit: 2175

As to claim 5, Chau et al. discloses a data processing system wherein the facility further comprises a repository responsively coupled to the legacy data base management system wherein the output definition table and the document type definition are stored within the repository (col. 16, lines 45-54 and Fig. 2, items 200, 202, 206 and 210 and Fig. 10, item 10).

As to claim 6, Chau et al. discloses an apparatus comprising:

a. publically accessible digital data communication network (i.e. internet or intranet) (col. 5, lines 50-52);

b. a data base management system having an internal format different from XML responsively (i.e. an XML column is used to store entire XML documents in the native XML format.) (col. 7, lines 66-67) coupled to the publically accessible digital data communication network (i.e. internet or intranet) (col. 5, lines 50-52) which generates a response in the internal format (col. 7, lines 66-67) and (col. 8, lines 1-5); and

c. an Output Definition Table which converts the response into an XML document for transmission (i.e. The XML data is mapped from the application DTD to the relational tables and columns using the document access definition based on the XPath

Art Unit: 2175

data model) (col. 3, lines 15-21) on the publically accessible digital data communication network (i.e. internet or intranet) (col. 5, lines 50-52).

As to claim 7, Chau et al. discloses an apparatus further comprising:

a Document Type Definition (DTD) which defines a format of the XML document (i.e. The XML data is mapped from the application DTD to the relational tables and columns using the document access definition based on the XPath data model) (col. 3, lines 15-21).

As to claim 8, Chau et al. discloses an apparatus further comprising:

a repository within the data base management system for storage of the Output Definition Table (col. 4, lines 25-31 and Fig. 4, item 404).

As to claim 9, Chau et al. discloses an apparatus further comprising:

a window for user activation of the Output Definition Table (i.e. In the Document Access Definition, applications can make a

Art Unit: 2175

custom mapping between database column data in new or existing tables to XML elements or attributes) (col. 8, lines 35-46).

As to claim 10, Chau et al. discloses an apparatus further comprising:

wherein the publically accessible digital data communication system further comprises the Internet (i.e. internet or intranet) (col. 5, lines 50-52).

As to claim 11, Chau et al. discloses a method of supplying a response from a data base management system comprising:

a. transferring a service request to the data base management system (col. 4, lines 15-24 and Fig. 1) via a publically accessible digital data communication network (i.e. internet or intranet) (col. 5, lines 50-52);

b. processing the service request by the data base management system to produce a response (col. 4, lines 15-24 and Fig. 1);

c. converting the response into an XML document using an Output Definition Table (ODT) (i.e. The XML data is mapped from the application DTD to the relational tables and columns using the document access definition based on the XPath data model) (col. 3, lines 15-21); and

Art Unit: 2175

d. transmitting the XML document via the publically accessible digital data communication network (i.e. internet or intranet) (col. 5, lines 50-52).

As to claim 12, Chau et al. discloses a data processing system wherein the facility further comprises an output definition table (i.e. The XML data is mapped from the application DTD to the relational tables and columns using the document access definition based on the XPath data model) (col. 3, lines 15-21).

As to claim 13, Chau et al. discloses a method wherein the Output Definition Table is dynamically generated from storage (i.e. The XML System also allows overrides of query conditions explicitly or implicitly defined in the DAD, by parsing the SQL or XML XPath based override parameter to the composition stored procedures. In this way, it supports dynamic query for generating XML documents.) (col. 8, lines 46-50).

As to claim 14, Chau et al. discloses a method wherein the converting step further comprises an XML element to source mapping tree containing an internal representation that assures

Art Unit: 2175

conformance to the Document Type Definition (i.e. The XML data is mapped from the application DTD to the relational tables and columns using the document access definition based on the XPath data model) (col. 3, lines 15-21) and (i.e. a document object model tree is generated using a document access definition. The document object model tree is traversed to obtain information to retrieve relational data. The relational data is mapped to one or more XML documents.) (col. 3, lines 16-21).

As to claim 15, Chau et al. discloses a method wherein the publically accessible digital data communication network further comprises the Internet (i.e. internet or intranet) (col. 5, lines 50-52).

As to claim 16, Chau et al. discloses an apparatus comprising:

a. means for transmitting an XML document via a publically accessible digital data communication network (i.e. internet or intranet) (col. 5, lines 50-52);

b. means responsively coupled to the transmitting means for processing a service request to produce a response (col. 4, lines 15-24 and Fig. 1);

c. means responsively coupled to the processing means for converting the response into the XMI, document (i.e. The XML data is mapped from the application DTD to the relational tables and columns using the document access definition based on the XPath data model) (col. 3, lines 15-21); and

d. means responsively coupled to the converting means and the transmitting means for sending the XML document (i.e. an XML column is used to store entire XML documents in the native XML format.) (col. 7, lines 66-67) to the transmitting means for transmission via the publically accessible digital data communication network (i.e. internet or intranet) (col. 5, lines 50-52).

As to claim 17, Chau et al. discloses an apparatus wherein the processing means further comprises
a repository (col. 4, lines 25-31 and Fig. 4, item 404).

As to claim 18, Chau et al. discloses an apparatus comprising means for defining a format of the XML document (i.e. The XML data is mapped from the application DTD to the relational tables and columns using the document access definition based on the XPath data model) (col. 3, lines 15-21).

Art Unit: 2175

As to claim 19, Chau et al. discloses an apparatus wherein the transmitting means further comprises the Internet (i.e. internet or intranet) (col. 5, lines 50-52).

As to claim 20, Chau et al. discloses an apparatus wherein the storing means stores the defining means for future use ((i.e. The XML data is mapped from the application DTD to the relational tables and columns using the document access definition based on the XPath data model) (col. 3, lines 15-21).

Prior Art Made of Record

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Meltzer et al. (U.S. Patent No. 6,226,675);

Cheng (U.S. Patent No. 6,366,934);

Cheng (U.S. Patent No. 6,421,656); and

Cheng (U.S. Patent No. 6,584,459).

Art Unit: 2175

Conclusion

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Yicun Wu whose telephone number is 703-305-4889. The examiner can normally be reached on 8:00 am to 4:30 pm, Monday -Friday. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dov Popovici can be reached on 703-305-3830. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9306 for regular communications and 703-746-7240 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-305-3900.

Yicun Wu
Patent Examiner
Technology Center 2100


DIANE B. MIZRAHI
PRIMARY PATENT EXAMINER
TECHNOLOGY CENTER 2100

June 7, 2004